

FILE 'REGISTRY' ENTERED AT 16:03:24 ON 08 FEB 2010

EXP 1-KESTOSE/CN  
L1 1 S E3  
EXP NYSTOSE/CN  
L2 1 S E3  
EXP 1F-BETA-FRUCTOFURANOSYLNYSTOSE/CN  
L3 1 S E4

FILE 'HCAPLUS' ENTERED AT 16:04:18 ON 08 FEB 2010

671 S L1-L3  
L4 128 S L1 AND L2 AND L3  
L5 1690 S KIBBLE OR ((PET OR DOG OR CAT OR CANINE OR FELINE) (W)FOOD)  
L6 0 S L5 AND L6  
L7 785512 S FOOD OR NUTRITION OR DIETARY  
L8 27 S L5 AND L8  
L9 20 S L9 AND (PY<2004 OR AY<2004 OR PRY<2004)  
L10

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:03:24 ON 08 FEB 2010  
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STRUCTURE FILE UPDATES: 7 FEB 2010 HIGHEST RN 1204734-34-8  
DICTIONARY FILE UPDATES: 7 FEB 2010 HIGHEST RN 1204734-34-8

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> exp 1-kestose/cn

E1	1	1-KESTOHEPTAOSE/CN
E2	1	1-KESTOPENTAOSE/CN
E3	1 -->	1-KESTOSE/CN
E4	1	1-KESTOSE-SUCROSE FRUCTOSYLTRANSFERASE/CN
E5	1	1-KESTOTRIOSE/CN
E6	1	1-KETO PREVITAMIN D3/CN
E7	1	1-KETO-A-CYPERONE/CN
E8	1	1-KETO-1, 2-DIHYDROISOQUINOLINE PHENYLHYDRAZONE/CN
E9	1	1-KETO-2, 3-EPOXYCHLORDENE/CN
E10	1	1-KETO-25-HYDROXYPREVITAMIN D3/CN
E11	1	1-KETO-3-(3'-SULFAMYL-4'-CHLOROPHENYL)-3-HYDROXYISOINDOLINE/ CN
E12	1	1-KETO-3-METHYL-3-CARBOMETHOXYTETRAHYDROISOQUINOLINE/CN

=> s e3

L1 1 1-KESTOSE/CN

=> exp nystose/cn

E1	1	NYSTEX/CN
E2	1	NYSTOP/CN
E3	1 -->	NYSTOSE/CN
E4	1	NYSTOSE TRIHYDRATE/CN
E5	1	NYSTRANOL/CN
E6	1	NYSYN 25-8/CN
E7	1	NYSYN 30-5/CN
E8	1	NYSYN 33-3/CN
E9	1	NYSYN 33-5/CN
E10	1	NYSYN 33-5HM/CN
E11	1	NYSYN 35-5/CN
E12	1	NYSYN 35-8/CN

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=> s e3
L2          1 NYSTOSE/CN

=> exp 1F-beta-fructofuranosylnystose/cn
E1          1      1F-B-D-FRUCTOFURANOSYL-6G(1-B-D-FRUCTOFURANOSYL)2
              SUCROSE/CN
E2          1      1F-B-D-FRUCTOFURANOSYL-6G(1-B-D-FRUCTOFURANOSYL)3
              SUCROSE/CN
E3          0 --> 1F-BETA-FRUCTOFURANOSYLNYSTOSE/CN
E4          1      1F-FRUCTOFURANOSYLNYSTOSE/CN
E5          1      1F-FRUCTOSYLSUCROSE/CN
E6          1      1F-FRUCTOSYLTRANSFERASE/CN
E7          1      1F1/CN
E8          1      1F2TM55/CN
E9          1      1F5/CN
E10         1      1F538/CN
E11         1      1F7/CN
E12         1      1F7 ANTIGENS/CN

=> s e4
L3          1 1F-FRUCTOFURANOSYLNYSTOSE/CN

=> file hcaplus
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                17.48      17.70

FILE 'HCAPLUS' ENTERED AT 16:04:18 ON 08 FEB 2010
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FILE COVERS 1907 - 8 Feb 2010  VOL 152 ISS 7
FILE LAST UPDATED: 7 Feb 2010  (20100207/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l1-l3
529 L1

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421 L2
182 L3
L4      671 (L1 OR L2 OR L3)

=> s 11 and 12 and 13
      529 L1
      421 L2
      182 L3
L5      128 L1 AND L2 AND L3

=> s kibble or ((pet or dog or cat or canine or feline)(w)food)
      329 KIBBLE
      87858 PET
      74233 DOG
      57530 CAT
      32341 CANINE
      7466 FELINE
      498071 FOOD
      1370 (PET OR DOG OR CAT OR CANINE OR FELINE)(W)FOOD
L6      1690 KIBBLE OR ((PET OR DOG OR CAT OR CANINE OR FELINE)(W)FOOD)

=> s 15 and 16
L7      0 L5 AND L6

=> s food or nutrition or dietary
      498071 FOOD
      195688 NUTRITION
      202089 DIETARY
L8      785512 FOOD OR NUTRITION OR DIETARY

=> s 15 and 18
L9      27 L5 AND L8

=> s 19 and (PY<2004 or AY<2004 or PRY<2004)
      24050346 PY<2004
      4826142 AY<2004
      4299615 PRY<2004
L10     20 L9 AND (PY<2004 OR AY<2004 OR PRY<2004)

=> d 110 1-20 ti abs bib

L10     ANSWER 1 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN
TI      Matrix-forming composition containing pectin
AB      A liquid edible composition with a pH >6, a viscosity <600 mPa s at a shear
rate    of 100 s-1 and 20°, and a viscosity ≥125% of the viscosity
        at pH <5 and 37° comprises ≥0.05 weight% pectin (degree of
        methoxylation 2-50) and/or alginate; ≥5 mg calcium per 100 mL; and
        ≥0.1 weight% indigestible oligosaccharide (degree of polymerization 2-60).
        Oral administration of the product may be used to treat or prevent obesity
        in mammals. Thus, a viscous dietetic food composition (100 mL, pH 7)
        may include 0.55 g low-methoxyl pectin, 154 mg calcium carbonate, 0.4 g
        tripotassium citrate, and 1 g Fibersol 2.
AN      2008:1088763 HCAPLUS <<LOGINID:20100208>>
DN      149:331171
TI      Matrix-forming composition containing pectin
IN      Navarro Y Koren, Peter Antonio; Van Laere, Katrien Maria Jozefa; De Lange,
        Maria Elisabeth Hermien; Minor, Marcel
PA      N.V. Nutricia, Neth.
SO      U.S., 12pp.
        CODEN: USXXAM

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DT Patent  
LA English  
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 7422764	B2	20080909	US 2004-871107	20040621 <--
	US 20040258826	A1	20041223		
	US 20030118712	A1	20030626	US 2001-22372	20011220 <--
	US 6884445	B2	20050426		
	EP 1410722	A1	20040421	EP 2002-79289	20021016 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	US 20030134027	A1	20030717	US 2002-279968	20021025 <--
	US 6989166	B2	20060124		
	WO 2003053165	A1	20030703	WO 2002-NL856	20021220 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2001-22372	A	20011220	<--	
	EP 2002-77222	A	20020607	<--	
	EP 2002-79289	A	20021016	<--	
	US 2002-279968	A	20021025	<--	
	WO 2002-NL856	A2	20021220	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L10 ANSWER 2 OF 20 HCAPLUS COPYRIGHT 2010 ACS ON STN  
TI Compositions comprising fermentable fiber which are adapted for use by a companion animal and kits and methods of their use  
AB The present disclosure is directed to compns., kits, and methods which are adapted for use (especially oral use) by companion animals, for enhancement of gastrointestinal health. In one embodiment, compns. are provided which comprise a fermentable fiber, wherein the composition is a liquid  
AN 2005:474928 HCAPLUS <<LOGINID:20100208>>  
DN 143:25818  
TI Compositions comprising fermentable fiber which are adapted for use by a companion animal and kits and methods of their use  
IN Norton, Sharon Ann; Goldy, Gary Gregory  
PA The Iams Company, USA  
SO U.S. Pat. Appl. Publ., 10 pp.  
CODEN: USXXCO

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050119222	A1	20050602	US 2003-725248	20031201 <--
	AU 2004295003	A1	20050616	AU 2004-295003	20041201 <--
	AU 2004295003	B2	20081204		
	CA 2547330	A1	20050616	CA 2004-2547330	20041201 <--
	WO 2005053425	A1	20050616	WO 2004-US40084	20041201 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,  
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,  
 MR, NE, SN, TD, TG  
 EP 1689247 A1 20060816 EP 2004-812571 20041201 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS  
 BR 2004017166 A 20070306 BR 2004-17166 20041201 <--  
 JP 2007512024 T 20070517 JP 2006-541496 20041201 <--  
 PRAI US 2003-725248 A 20031201 <--  
 WO 2004-US40084 W 20041201

L10 ANSWER 3 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
 TI Companion animal compositions comprising short-chain oligofructose  
 AB Pet feed comps. comprise about 0.01-0.2% short-chain oligofructose (by  
 weight of the composition) comprising 1-kestose, nystose, and  
 1F- $\beta$ -fructofuranosylnystose. The comps. are used to enhance the  
 gastrointestinal health of the animal and may improve fecal odor.  
 AN 2005:471849 HCAPLUS <<LOGINID:20100208>>  
 DN 143:6762  
 TI Companion animal compositions comprising short-chain oligofructose  
 IN Vickers, Robert Jason; Boileau, Thomas William-Maxwell; Sunvold, Gregory  
 Dean  
 PA The Iams Company, USA  
 SO U.S. Pat. Appl. Publ., 7 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 20050118299	A1	20050602	US 2003-725251	20031201 <--
AU 2004295004	A1	20050616	AU 2004-295004	20041201 <--
AU 2004295004	B2	20081009		
CA 2547332	A1	20050616	CA 2004-2547332	20041201 <--
WO 2005053427	A1	20050616	WO 2004-US40085	20041201 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1689248	A1	20060816	EP 2004-812572	20041201 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
BR 2004017167	A	20070306	BR 2004-17167	20041201 <--
JP 2007512840	T	20070524	JP 2006-542681	20041201 <--
PRAI US 2003-725251	A	20031201	<--	
WO 2004-US40085	W	20041201		

L10 ANSWER 4 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
 TI Methods and kits related to administration of a fructooligosaccharide

AB A first embodiment disclosed herein is a method of enhancing total tract digestibility of one or more dietary components in a companion animal, the method comprising administering to the companion animal a companion animal composition comprising fructooligosaccharide. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for enhancing total tract digestibility of one or more dietary components in the companion animal, are also disclosed. In a related, but sep., embodiment, a method selected from enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, the method comprising administering to a companion animal a companion animal composition comprising fructooligosaccharide, is disclosed. Kits comprising the companion animal composition and information that use of the companion animal composition by a companion animal is useful for a purpose selected from the group consisting of enhancing calcium absorption, improving bone health, improving strength, improving phys. activity performance, and combinations thereof, are also disclosed.

AN 2005:471837 HCAPLUS <<LOGINID:20100208>>

DN 143:13251

TI Methods and kits related to administration of a fructooligosaccharide  
IN Sunvold, Gregory Dean; Boileau, Thomas William-Maxwell; Vickers, Robert Jason

PA The Iams Company, USA

SO U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050118234	A1	20050602	US 2003-724839	20031201 <--
	AU 2004295005	A1	20050616	AU 2004-295005	20041201 <--
	CA 2547059	A1	20050616	CA 2004-2547059	20041201 <--
	WO 2005053426	A1	20050616	WO 2004-US40086	20041201 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1696734	A1	20060906	EP 2004-812573	20041201 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	BR 2004017187	A	20070306	BR 2004-17187	20041201 <--
	JP 2007512032	T	20070517	JP 2006-542682	20041201 <--
	AU 2008229785	A1	20081030	AU 2008-229785	20081003 <--
PRAI	US 2003-724839	A	20031201	<--	
	AU 2004-295005	A3	20041201		
	WO 2004-US40086	W	20041201		

L10 ANSWER 5 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Mucosal immunity-stimulating compositions and foods containing fructooligosaccharides

AB The comps. useful for infant formula, health foods, dietary supplements, and foods for the elderly or patients, contain fructooligosaccharides, glucosyl-(1→2)-(fructosyl)n-β-

(2-1)-fructose (n = 1-3). The compns. enhance the production of polymeric Ig receptors and antigen-specific secretory IgA and protect against infection. Weanling mice were fed with feed containing 5 weight% Meioligo P (mixture containing 1-kestose, nystose, and 1F- $\beta$ -fructofuranosylnystose; purity  $\geq 95\%$ ) for 27-28 days. The amts. of IgA antibodies produced in the mice were 1.3 mg/day in the feces, 2.8  $\mu\text{g}/\text{mg-dry-wt.}$  in the Peyer's patch lymphocytes, and 302  $\mu\text{g}/\text{large-intestine}$ , while those in controls fed without fructooligosaccharides were 0.3 mg/day, 1.1  $\mu\text{g}/\text{mg-dry-weight}$ , and 173  $\mu\text{g}$ , resp.

AN 2003:550191 HCAPLUS <<LOGINID:20100208>>

DN 139:100279

TI Mucosal immunity-stimulating compositions and foods containing fructooligosaccharides

IN Nakamura, Yoshitaka; Nagafuchi, Shinya; Takahashi, Takeshi

PA Meiji Milk Products, Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003201239	A	20030718	JP 2002-81842	20020322 <--
PRAI	JP 2001-339956	A	20011105	<--	
OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)			

L10 ANSWER 6 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Effect of food-processing on the degradation of fructooligosaccharides in fruit

AB The effect of process on fructooligosaccharide degradation in stewed apple-banana and 3 apple dessert was studied. 1-Kestose was analyzed using an accurate anal. method for carbohydrate determination (high-performance anion exchange chromatog. with pulsed amperometric detection, HPAEC-PAD). It appears that the content of 1-kestose in raw material was much higher than in the finished product. Furthermore, a banana puree incubated for 30 min over a temperature range (80-110°C), supposed to favor degradation, appeared stable. This indicate that its the formulation rather than cooking or pasteurization which is responsible for the fructooligosaccharide loss.

AN 2003:535112 HCAPLUS <<LOGINID:20100208>>

DN 139:260176

TI Effect of food-processing on the degradation of fructooligosaccharides in fruit

AU L'homme, C.; Puigserver, A.; Biagini, A.

CS Institut Mediterranéen de Recherche en Nutrition, Universite Aix-Marseille III-INRA, Marseille, 13397, Fr.

SO Food Chemistry (2003), 82(4), 533-537

CODEN: FOCHDJ; ISSN: 0308-8146

PB Elsevier Science

DT Journal

LA English

OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Fructan content of rye and rye products

AB The fructan content of Finnish rye grains (13 samples, seven cultivars, harvested in 1998-2000) varied at 4.6-6.6 g/100 g (db). Com. whole grain rye flour and rye flakes had fructan content of 4 g/100 g, light refined



rye flour had fructan content of 3 g/100 g, and rye bran had fructan content of 7 g/100 g. Fructan content as high as 23 g/100 g was detected in the water-extractable concentrate of rye bran. Finnish soft rye bread and rye crisp bread contained 2-3 g of fructan/100 g. According to the suggested new definition of dietary fiber, fructans are also classified as dietary fiber. This means that the dietary fiber content of some cereal foods such as rye products may be increased by as much as 20% due to the presence of fructans in the grain.

AN 2003:237859 HCAPLUS <<LOGINID:20100208>>  
 DN 138:320194  
 TI Fructan content of rye and rye products  
 AU Karppinen, S.; Myllymaki, O.; Forssell, P.; Poutanen, K.  
 CS VTT Biotechnology, VTT, FIN-02044, Finland  
 SO Cereal Chemistry (2003), 80(2), 168-171  
 CODEN: CECHAF; ISSN: 0009-0352  
 PB American Association of Cereal Chemists  
 DT Journal  
 LA English  
 OSC.G 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)  
 RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
 TI Beverage with storage-stable prebiotic difructose dianhydride III dietary fiber additive  
 AB The invention relates to a beverage in which difructose dianhydride III is added as prebiotic dietary fiber, wherein the DFA III shows, even at a pH value of < 3.9, sufficient storage stability during the entire shelf life of the beverage.  
 AN 2003:202394 HCAPLUS <<LOGINID:20100208>>  
 DN 138:220691  
 TI Beverage with storage-stable prebiotic difructose dianhydride III dietary fiber additive  
 IN Stoppok, Eberhard; Walter, Martin; Wullbrandt, Dieter  
 PA Nordzucker A.-G., Germany  
 SO PCT Int. Appl., 10 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003020054	A2	20030313	WO 2002-EP9632	20020829 <--
WO 2003020054	A3	20071129		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, AP, EA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, EP, OA			
DE 10142433	A1	20030403	DE 2001-10142433	20010831 <--
CA 2455634	A1	20030313	CA 2002-2455634	20020829 <--
AU 2002333741	A1	20030318	AU 2002-333741	20020829 <--
JP 2005510210	T	20050421	JP 2003-524376	20020829 <--
EP 1585393	A2	20051019	EP 2002-797641	20020829 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

IE, FI, CY, TR, BG, CZ, EE, SK  
 US 20040194630 A1 20041007 US 2004-487562 20040224 <--  
 FRAI DE 2001-10142433 A 20010831 <--  
 WO 2002-EP69632 W 20020829 <--  
 OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L10 ANSWER 9 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
 TI Detection of oligosaccharides in sugar products using planar chromatography  
 AB Oligosaccharides, and in particular raffinose and kestoses, are of great importance not only in the field of cane and beet processing but also in respect of the analyses of a number of agricultural raw materials and trade products. The authors judge it to be useful to have at one's disposal a simple and reliable anal. technique to be used for the detection of oligosaccharides in different materials. Modern planar chromatog. can be utilized, bearing in mind that HPTLC (high performance thin layer chromatog.) plates, Automated Multiple Development, completely automated elution systems, sample positioning and spots detection apparatuses, are available. Details on the anal. methodol. adopted for molasses and other sugar products are presented and discussed also giving statistical data about its accuracy and precision. Some examples of practical application of the proposed methodol. are described.

AN 2001:426224 HCAPLUS <<LOGINID::20100208>>  
 DN 135:194587  
 TI Detection of oligosaccharides in sugar products using planar chromatography  
 AU Vaccari, G.; Lodi, G.; Tamburini, E.; Bernardi, T.; Tosi, S.  
 CS Chemistry Department, University of Ferrara, Ferrara, 44100, Italy  
 SO Food Chemistry (2001), 74(1), 99-110  
 CODEN: FOCHDJ; ISSN: 0308-8146  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
 RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
 TI Ion Chromatographic Determination of Three Fructooligosaccharide Oligomers in Prepared and Preserved Foods  
 AB Fructooligosaccharides (FOS) are short-chain sugars that occur naturally and have dietary benefits for humans. They are widely distributed in nature and are a natural part of the human diet. The objective of this study was to determine the concns. of 1-kestose (GF2), nystose (GF3), and 1F- $\beta$ -fructofuranosyl-nystose (GF4) in a variety of common processed and prepared foods. An ion chromatog. method was developed for this purpose in which the sugar concns. were measured using integrated amperometry. The samples were simply prepared by blending with water and filtering the suspensions through a 10000 Da cutoff centrifugal filter. These samples were then injected into the ion chromatograph, which had been programmed for gradient elution, and the areas of the sugar peaks obtained compared to those of standard sugars on a calibration curve. Selected samples were prepared both with and without standard spikes to assess the efficiency of the determination. Of the vegetables investigated, artichokes contained by far the most FOS, followed by onions; bananas contained more FOS than other fruits investigated. The method was shown to be simple, convenient, and relatively fast for the quantitation of FOS in processed and prepared food products.

AN 2000:679053 HCAPLUS <<LOGINID::20100208>>  
 DN 133:349304  
 TI Ion Chromatographic Determination of Three Fructooligosaccharide Oligomers

in Prepared and Preserved Foods  
AU Hogarth, A. J. C. L.; Hunter, Diane E.; Jacobs, Wesley A.; Garleb, Keith  
A.; Wolf, Bryan W.  
CS Ross Products Division, Abbott Laboratories, Columbus, OH, 43215, USA  
SO Journal of Agricultural and Food Chemistry (2000), 48(11),  
5326-5330  
CODEN: JAFCAU; ISSN: 0021-8561  
PB American Chemical Society  
DT Journal  
LA English  
OSC.G 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)  
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
TI Analysis of Food Oligosaccharides Using MALDI-MS: Quantification  
of Fructooligosaccharides  
AB Matrix-assisted laser desorption/ionization mass spectrometry (MALDI-MS)  
is a powerful new technique that will have a great impact on food  
anal. This study demonstrates the applicability of MALDI-MS performed  
directly on an aqueous food extract for qual. and quant. anal. of  
food oligosaccharides. 2',4',6'-Trihydroxyacetophenone was the  
best matrix for anal. of oligosaccharides in the foods examined. The  
relationship between laser strength, resolution, and the response factors of  
individual oligosaccharides using MALDI-MS was investigated. A MALDI-MS  
method for quant. anal. of fructooligosaccharides with standard addition of a  
pure fructooligosaccharide was developed. High performance anion exchange  
chromatog. with pulsed amperometric detection was compared to MALDI-MS for  
the anal. of fructooligosaccharides. The fructooligosaccharide analyses  
were performed on red onions, shallots, and elephant garlic.  
AN 1999:157524 HCAPLUS <<LOGINID:20100208>>  
DN 130:324438  
TI Analysis of Food Oligosaccharides Using MALDI-MS: Quantification  
of Fructooligosaccharides  
AU Wang, Jian; Sporns, Peter; Low, Nicholas H.  
CS Department of Agricultural Food and Nutritional Science, University of  
Alberta, Edmonton, AB, T6G 2P5, Can.  
SO Journal of Agricultural and Food Chemistry (1999), 47(4),  
1549-1557  
CODEN: JAFCAU; ISSN: 0021-8561  
PB American Chemical Society  
DT Journal  
LA English  
OSC.G 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (45 CITINGS)  
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 12 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
TI Determination of fructooligosaccharides in raw materials and finished  
products by HPAE-PAD  
AB Fructooligosaccharides (FOS) are food grade non-digestible  
carbohydrates that exert beneficial nutritional effects. During the past  
few years, they have been intensively commercialized in a large variety of  
food products. Therefore, their characterization and  
quantification is required for food-labeling purposes. This  
article describes the suitability of high performance anion exchange  
chromatog. coupled with pulsed amperometric detection (HPAE-PAD) for the  
characterization and determination of FOS. Using an optimized separation  
method, FOS  
to a d.p. of 8, together with fructose, glucose, lactose, sucrose,  
maltose, and malto-n-ose (n = 3 to 7), were completely separated in a single

50-min run. FOS were identified and quantified in five com. preps. and 20 com. foods. Results were consistent with the composition indicated on the labels. The method is simple, sensitive, and reproducible. Detection limits were in the range 1.5-4.0 mg/L for all sugars of interest. Repeatability and repeatability relative standard deviation were 0.02% and 2.31%, resp. The recovery of FOS preps. in various foods ranged from 95% to 108%.

AN 1997:748774 HCAPLUS <<LOGINID:20100208>>

DN 128:33876

OREF 128:6669a,6672a

TI Determination of fructooligosaccharides in raw materials and finished products by HPAE-PAD

AU Marc Durnat, Jean; Martinez, Cristina

CS Quality & Safety Assurance Department, Nestec Ltd., Nestle Research Centre, Lausanne, CH-1000/26, Switz.

SO Seminars in Food Analysis (1997), 2(1/2), 85-97

CODEN: SFANF7; ISSN: 1084-2071

PB Chapman & Hall

DT Journal

LA English

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 20 HCAPLUS COPYRIGHT 2010 ACS on SIN

TI Selected Fructooligosaccharide (1-Kestose, Nystose, and 1F- $\beta$ -Fructofuranosylnystose) Composition of Foods and Feeds

AB Fructooligosaccharides (FOS) are naturally occurring sugars with potentially beneficial nutritional effects. They are widely distributed throughout the plant kingdom. An ion chromatog. method was developed to rapidly and accurately measure FOS in selected food and feed ingredients ingested by humans and animals. The objective of this study was to determine the 1-kestose (1-kestotriose; GF2), nystose (1,1-kestotetraose; GF3), and 1F- $\beta$ -fructofuranosylnystose (1,1,1-kestopentaose; GF4) content of a wide variety of foods and feedstuffs. After extraction with water and appropriate filtration, samples were chromatographed, using an alkaline sodium acetate gradient, through an ion exchange column and guard fitted to a Dionex chromatog. unit equipped with a pulsed electrochem. detector. All samples were prepared both with and without spikes of stds. to verify recovery and peak identification. Samples of the Compositae family were highest in total FOS followed by Allium species of the Amaryllidaceae family. The method provided excellent separation, recovery, and quantification of the GFn units of FOS. Accurate quantitation of FOS will allow more precise nutritional formulations to be developed with respect to inclusion of this functional food component in human and animal diets.

AN 1997:547218 HCAPLUS <<LOGINID:20100208>>

DN 127:134828

OREF 127:26001a,26004a

TI Selected Fructooligosaccharide (1-Kestose, Nystose, and 1F- $\beta$ -Fructofuranosylnystose) Composition of Foods and Feeds

AU Campbell, Joy M.; Bauer, Laura L.; Fahey, George C., Jr.; Hogarth, A. J. C. L.; Wolf, Bryan W.

CS Department of Animal Sciences and Division of Nutritional Sciences, University of Illinois, Urbana, 61801, USA

SO Journal of Agricultural and Food Chemistry (1997), 45(8), 3076-3082

CODEN: JAFCAU; ISSN: 0021-8561

PB American Chemical Society

DT Journal

LA English

OSC.G 51 THERE ARE 51 CAPLUS RECORDS THAT CITE THIS RECORD (51 CITINGS)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 14 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
TI Use of indigestible oligosaccharides to prevent and treat diarrhea  
AB A method is provided for reducing the duration of diarrhea and recurrent episodes of diarrhea in humans by enterally administering indigestible oligosaccharides prophylactically. More specifically, the present invention relates to a method using indigestible oligosaccharides or fructooligosaccharides (FOS) to reduce the duration and recurrence of diarrhea in a human wherein between 0.5 g and 5 g or at least one FOS selected from the group consisting of 1-ketose, nystose, and fF- $\beta$ -fructofuranosyl nystose is administered to said human per day. The indigestible oligosaccharides can be produced through enzymic synthesis, chemical techniques or isolated from plant materials and are administered in the form of a nutritional product, candy, tablets, chewing gum, lozenges, milk, yogurts, fermented products and the like. A FOS powder contained glucose and fructose 0.5 sucrose 3.5, fructooligosaccharide 96.0, GF2 41.3, GF3 45.7 and GF4 9.0%. A milk-based beverage was supplemented with 3.5 g/L of above FOS and was fed to children 10-24 mo of age for a period of 16 wk. The number of children having diarrhea and mean duration in days were 43, and 3.91 as compared with 56 and 4.88, resp., for the controls.  
AN 1997:205160 HCAPLUS <<LOGINID:20100208>>  
DN 126:203722  
OREF 126:39307a,39310a  
TI Use of indigestible oligosaccharides to prevent and treat diarrhea  
IN Dohnalek, Margaret Ione Halpin; Ostrom, Karin Margaret; Hilty, Milo Duane  
PA Abbott Laboratories, USA  
SO PCT Int. Appl., 17 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9702829	A2	19970130	WO 1996-US11201	19960702 <--
	WO 9702829	A3	19970327		
	W: AU, BR, CA, IL, JP, MX, NO, NZ				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5827526	A	19981027	US 1996-653084	19960612 <--
	CA 2226422	A1	19970130	CA 1996-2226422	19960702 <--
	CA 2226422	C	20030617		
	AU 9663447	A	19970210	AU 1996-63447	19960702 <--
	AU 723942	B2	20000907		
	EP 837685	A2	19980429	EP 1996-922639	19960702 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	NZ 312019	A	20000623	NZ 1996-312019	19960702 <--
	JP 2002502356	T	20020122	JP 1997-505867	19960702 <--
	IL 123131	A	20050831	IL 1996-123131	19960702 <--
	ZA 9605904	A	19970129	ZA 1996-5904	19960711 <--
	NO 9800083	A	19980310	NO 1998-83	19980108 <--
	NO 314242	B1	20030224		
PRAI	US 1995-1036P	P	19950711	<--	
	US 1996-653084	A	19960612	<--	
	WO 1996-US11201	W	19960702	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
OSC.G 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)  
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
 TI Use of indigestible oligosaccharides to treat and prevent otitis media in humans  
 AB A method is provided for reducing the incidence of otitis media in infants and young children comprising administering to human and indigestible oligosaccharide selected from the group consisting of fructooligosaccharides, fructosans, xylooligosaccharides and galactooligosaccharides. The indigestible oligosaccharides can be produced through enzymic synthesis, chemical techniques or isolated from plant materials and are administered in the form of a nutritional produce, candy, tablets, chewing gums, lozenges, milk products, yogurt and the like. In a preferred embodiment of this invention, the indigestible oligosaccharides have a d.p. of 2-20 and still more preferably are the fructooligosaccharides GF2, GF3 and GF4. A fructooligosaccharide powder contained glucose and fructose 0.5 sucrose 3.5, fructooligosaccharide 96.0, GF2 41.3, GF3 45.7 and GF4 9.0%. A milk-based beverage was supplemented with 3.5 g/L of above fructooligosaccharide and was fed to children 10-24 mo of age for a period of 16 wk. The number of children having otitis media were 26 as compared with 51 for the controls.  
 AN 1997:205159 HCAPLUS <<LOGINID::20100208>>  
 DN 126:203721  
 OREF 126:39307a,39310a  
 TI Use of indigestible oligosaccharides to treat and prevent otitis media in humans  
 IN Dohnalek, Margaret Ione Halpin; Ostrom, Karin Margaret; Hilty, Milo Duane  
 PA Abbott Laboratories, USA  
 SO PCT Int. Appl., 16 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9702830	A2	19970130	WO 1996-US11243	19960702 <--
	WO 9702830	A3	19970410		
	W: AU, BR, CA, IL, JP, MX, NO, NZ				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5849324	A	19981215	US 1996-653083	19960612 <--
	ZA 9605619	A	19970124	ZA 1996-5619	19960702 <--
	CA 2226420	A1	19970130	CA 1996-2226420	19960702 <--
	AU 9663452	A	19970210	AU 1996-63452	19960702 <--
	AU 719547	B2	20000511		
	EP 837686	A2	19980429	EP 1996-922652	19960702 <--
	EP 837686	B1	20021009		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	BR 9609619	A	19990406	BR 1996-9619	19960702 <--
	NZ 312022	A	20000623	NZ 1996-312022	19960702 <--
	JP 2002502357	T	20020122	JP 1997-505879	19960702 <--
	AT 225662	T	20021015	AT 1996-922652	19960702 <--
	EP 1254664	A2	20021106	EP 2002-15505	19960702 <--
	EP 1254664	A3	20040102		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	PT 837686	E	20030228	PT 1996-922652	19960702 <--
	ES 2186788	T3	20030516	ES 1996-922652	19960702 <--
	NO 9800071	A	19980107	NO 1998-71	19980107 <--
PRAI	US 1995-1000P	P	19950710	<--	
	US 1996-653083	A	19960612	<--	
	US 1995-1000	P	19950710	<--	
	EP 1996-922652	A3	19960702	<--	
	WO 1996-US11243	W	19960702	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)  
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 16 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Determination of oligosaccharides in foods for specified health use by HPLC

AB A simple and rapid determination method was developed for oligosaccharides in foods; lactosylfructoside (= lactosucrose), soy-oligosaccharides, fructooligosaccharides, palatinose, maltitol and xylotriose. Milk was deproteinized with 1.8% trichloroacetic acid and then defatted with di-Et ether. Youkan or gum was cut into small pieces, then warm water was added and the mixture was ultrasonicated. Oligosaccharides were extracted with 50% EtOH and the solution was filtered. The oligosaccharides were analyzed by normal-phase HPLC [column, TSKgel Amide-80 (4.6 mm i.d. + 250 mm); mobile phase, MeCN-water (70:30); detection, differential refractometer]. Contents of oligosaccharides in 6 com. oligosaccharides for foodstuffs and 7 com. foods, mainly Foods for Specified Health Use (functional foods) were determined by the proposed method. The content of oligosaccharide was consistent with the indicated content in all cases. Recoveries of the oligosaccharides from foods were in the range of 95.0-118%. The detection limit of the oligosaccharides was 0.2 mg/mL for juice, 0.5 mg/g for milk, and 1 mg/g for youkan and gum.

AN 1996:181943 HCAPLUS <<LOGINID:20100208>>

DN 124:341144

OREF 124:63365a, 63368a

TI Determination of oligosaccharides in foods for specified health use by HPLC

AU Yasui, Teruyo; Toda, Chitose; Nagano, Hideo; Ishihara, Hideko

CS Fac. Pharm., Meijo Univ., Nagoya, 468, Japan

SO Shokuhin Eiseigaku Zasshi (1996), 37(1), 29-37

CODEN: SKEZAP; ISSN: 0015-6426

DT Journal

LA Japanese

L10 ANSWER 17 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Recent developments in commercial ion-exchange separation technology for 90% fructooligosaccharides

AB Fructooligosaccharides (FOS) are naturally occurring sugars that can have beneficial effects as food ingredients. FOS are resistant to digestion by mammalian  $\alpha$ -amylase, sucrase, and maltase. They are therefore nondigestible by humans but can be utilized by some Gram-pos. organisms, such as bifidobacteria. FOS are utilized by bifidobacteria from the human intestinal tract in vitro. Therefore, there will be an increasing demand for FOS in the health-food market. A process for producing a high-FOS syrup containing more than 90% FOS has been developed that involves an ion-exchange separation. The authors investigated many organic ion-exchange resins and two inorg. compds. as packing materials for separation. The most effective ion-exchange resin (TSCP5) was selected for packing separation columns. Ten in-series connected identical jacketed columns (140 cm + 5.5 cm i.d., column volume 3.3 L) were packed with TSCP5 resin and kept at 60°. By first feeding about 2 kg TSC Oligo syrup (52BX), then eluting the components with hot deionized water at flow rates of 2.5 h/0.5 bed volume (BV) followed by 1.5 h/0.5 BV, a 90% FOS solution was obtained with an 85% recovery.

AN 1995:672608 HCAPLUS <<LOGINID:20100208>>

DN 123:226345

OREF 123:40415a, 40418a

TI Recent developments in commercial ion-exchange separation technology for 90% fructooligosaccharides

AU Yang, John P.; Huang, S. L.; Wang, L. H.; Liu, Y. T.

CS Dep. of Biotechnology, Taiwan Sugar Res. Inst., Tainan, Taiwan  
 SO Taiwan Tangye Yanjiuso Yanjiu Huibao (1994), 146, 33-43  
 CODEN: TTYBR; ISSN: 0372-2414  
 PB Taiwan Sugar Research Institute  
 DT Journal  
 LA Chinese

L10 ANSWER 18 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Feed containing fructooligosaccharides for reducing mortality and air sac lesions and for enhancing breast-to-body weight ratio in poultry  
 AB Poultry are fed compns. containing fructooligosaccharides, e.g. sucrose with 1-8 fructose residues attached. This enhances breast weight to body weight ratios and decreases mortality and air sac lesions. Chicks were given food containing Neosugar G (glucose and sucrose 43-50, 1-kestose 20-30, nystose 20-30, and 1-fructofuranosylmystose 2-8%) for 47 days. Those chickens which received feed containing 0.375% Neosugar G had an average body weight of 2.205 kg, 18.72% of which was breast weight. The value for controls was 2.037 and 17.49, resp. The mortality rate for chickens which had received 0.75% Neosugar G was 5.31%; for those receiving no Neosugar G, 7.67%. Similar feeding regimens decreased the air sac lesion score from 2.29-2.44 (no Neosugar G) to 1.54.

AN 1990:551256 HCAPLUS <<LOGINID:20100208>>

DN 113:151256

OREF 113:25705a

TI Feed containing fructooligosaccharides for reducing mortality and air sac lesions and for enhancing breast-to-body weight ratio in poultry

IN Quarles, Carey L.

PA Coors Biotech, Inc., USA

SO U.S., 6 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4927811	A	19900522	US 1988-271931	19881115 <--
	CA 2002712	A1	19900515	CA 1989-2002712	19891110 <--
	CA 2002712	C	19971014		
FRAI	US 1988-271931	A	19881115	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 19 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Quantitative analysis of fructooligosaccharides by gas-liquid chromatography and high-performance liquid chromatography

AB Fructooligosaccharides were separated by gas chromatog. on a 5% OV-101 column after trimethylsilylation or by high-performance liquid chromatog. on a Nucleosil 5NH2 column with MeCN-water (65:35) as the mobile phase. Sucrose [57-50-1], 1-kestose [470-69-9], nystose [13133-07-8], and fructonystose [59432-60-9] were well separated by either method. In some mixts. of oligosaccharides, however, gas chromatog. was more efficient than liquid chromatog. in separating some of the components.

AN 1984:137495 HCAPLUS <<LOGINID:20100208>>

DN 100:137495

OREF 100:20961a, 20964a

TI Quantitative analysis of fructooligosaccharides by gas-liquid chromatography and high-performance liquid chromatography

AU Hagiwara, Kiyokazu; Tsuda, Akiko; Ichikawa, Tomio; Kanaya, Kenichiro;



Yoneyama, Satoshi; Suda, Hiroyuki; Iwao, Hiroyuki  
 CS Div. Appl. Food Res., Natl. Inst. Nutr., Tokyo, 162, Japan  
 SO Shokuhin Eiseigaku Zasshi (1983), 24(6), 558-62  
 CODEN: SKEZAP; ISSN: 0015-6426  
 DT Journal  
 LA Japanese  
 OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L10 ANSWER 20 OF 20 HCAPLUS COPYRIGHT 2010 ACS on STN  
 TI Low-calorie sweetener  
 AB sucrose [57-50-1] is reacted with an Aspergillus transferase enzyme to form derivs. in which fructosyl residues are attached to sucrose moles. These derivs. may be used as noncarcinogenic, low-cal sweetening agents. Thus, Aspergillus niger culture fluid was concentrated by ultrafiltration to a transferase activity of 240 units/mL. Ten kg sucrose in 6.7 L water was treated with the concentrate at 48 units/g sucrose and held 72 h at 50°. The products consisted of glucose 33, fructose 4, sucrose 10, 1-kestose [470-69-9] 29, nystose [13133-07-8] 20, and 1F-fructofuranosylnystose [59432-60-9] 4%. The latter 3 compds. were used as sweetening agents for food and chewing gum.  
 1983:177834 HCAPLUS <<LOGINID:20100208>>

AN 98:177834  
 DN 98:27013a,27016a  
 OREF 98:27013a,27016a  
 TI Low-calorie sweetener  
 IN Adachi, Takashi; Niizato, Tetsutaro; Hidaka, Hidemasa; Takeda, Ueto  
 PA Meiji Seika Kaisha, Ltd., Japan  
 SO Ger. Offen., 18 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3232531	A1	19830317	DE 1982-3232531	19820901 <--
	DE 3232531	C2	19950713		
	JP 58040065	A	19830308	JP 1981-136130	19810901 <--
	GB 2105338	A	19830323	GB 1982-24919	19820901 <--
PRAI	JP 1981-136130	A	19810901	<--	

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT